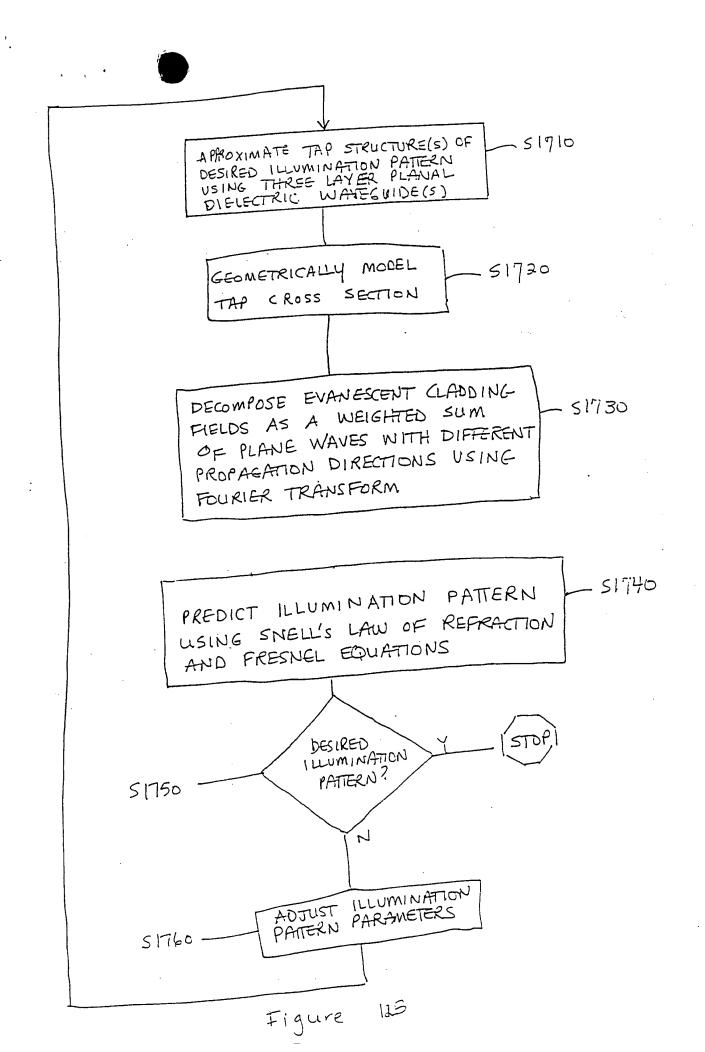


Figure 12A



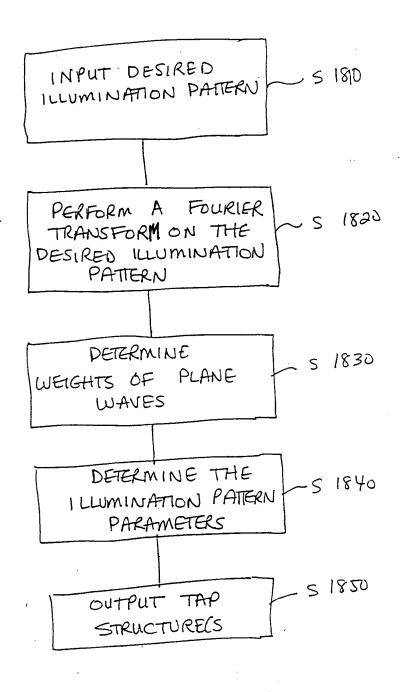
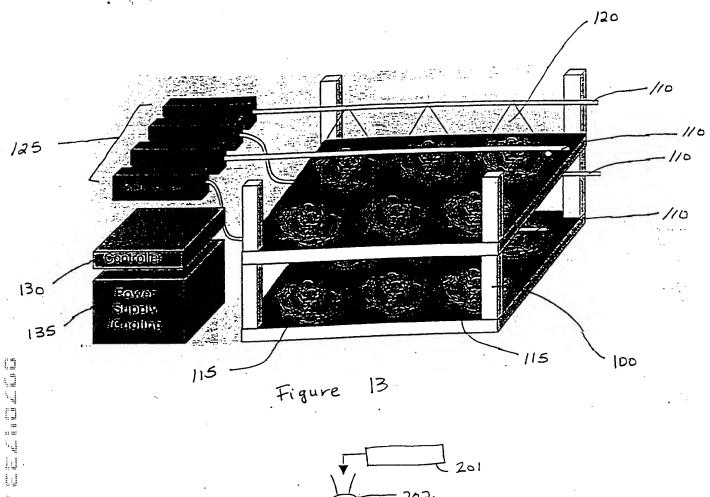
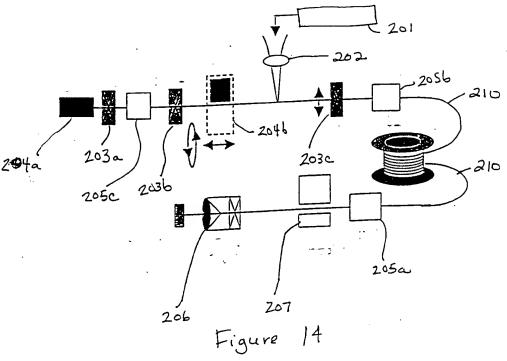


Figure 12C





Half that the first for





Figure 14A

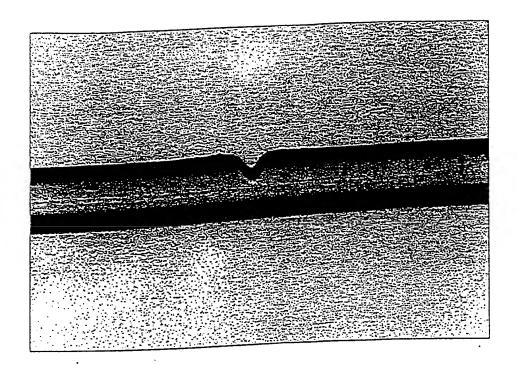
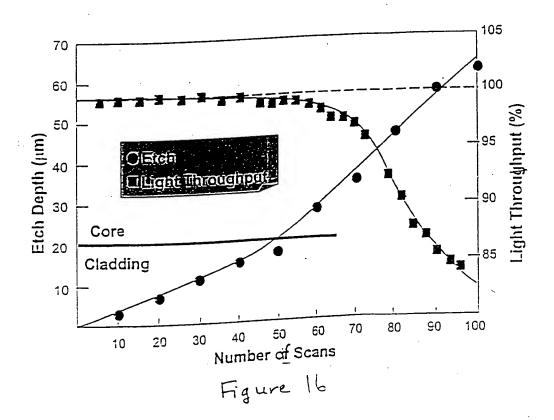


Figure 15



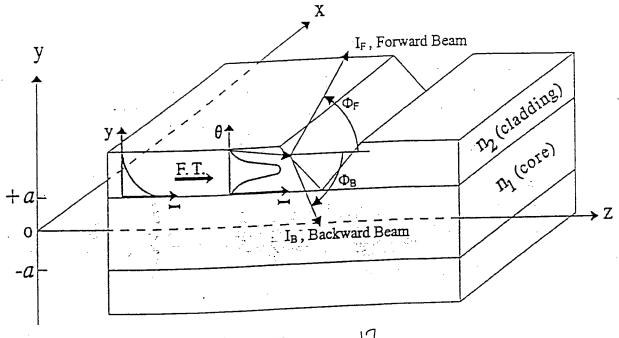
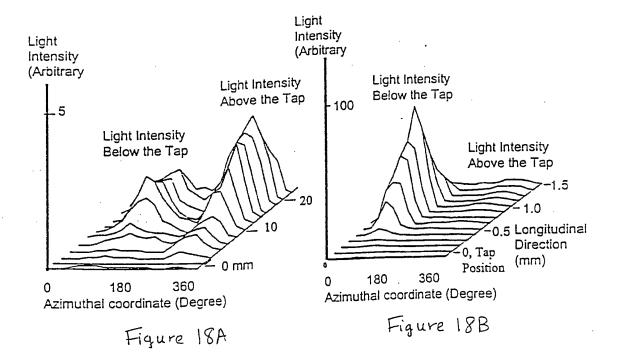


Figure 17



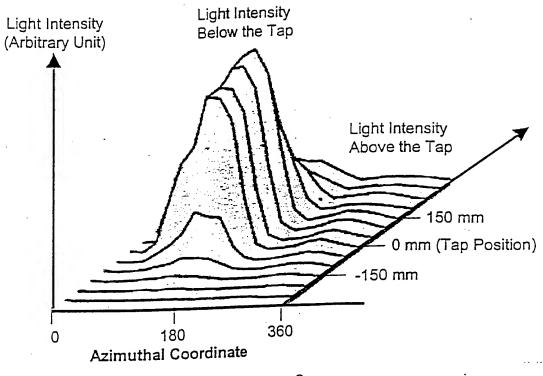
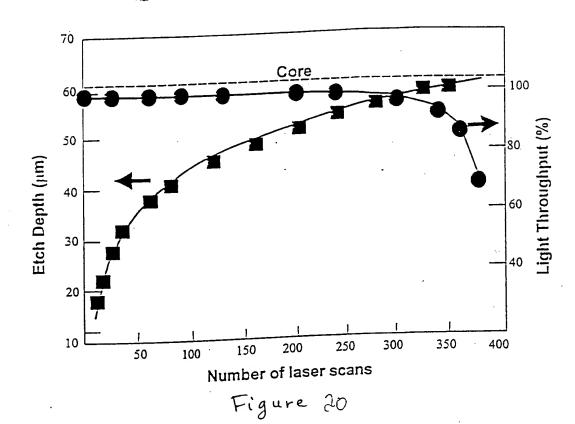
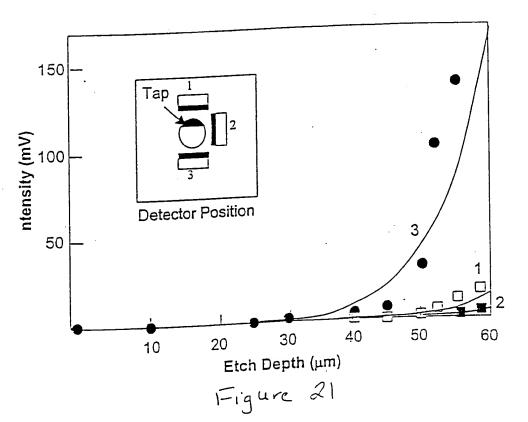


Figure 19

Tap Angle (α)	Polarization .	Фв	Фғ	l _B /l _{total} (%)	l _F /l _{total} (%)
10° (Multimode fiber)	s (Theory) p(Theory) random (Experimental)	20.5° 17.1° 17°	10.5° 10.5° 15°	54.3 54.4 48.4	45.7 45.6 51.6
35° (Multimode fiber)	s (Theory) p(Theory) random (Experimental)	60.1° 60.1° 60°	17.8° 16.3° ~0	95.7 96.5 92.6	4.3 3.5 7.4
50° (Single mode fiber)	s (Theory) p(Theory) random (Experimental)	98° 95° 84°	~ 0 ~ 0 ~ 0	89.9 86.7 91.0	10.1 13.3 9.0

Figure 22





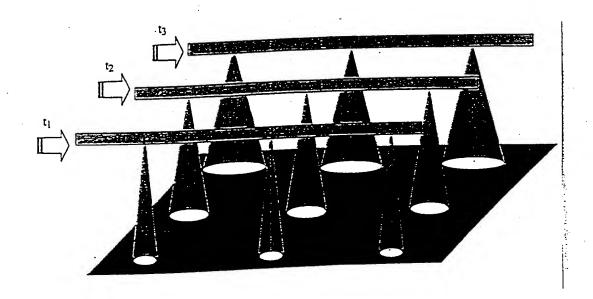


Figure 23

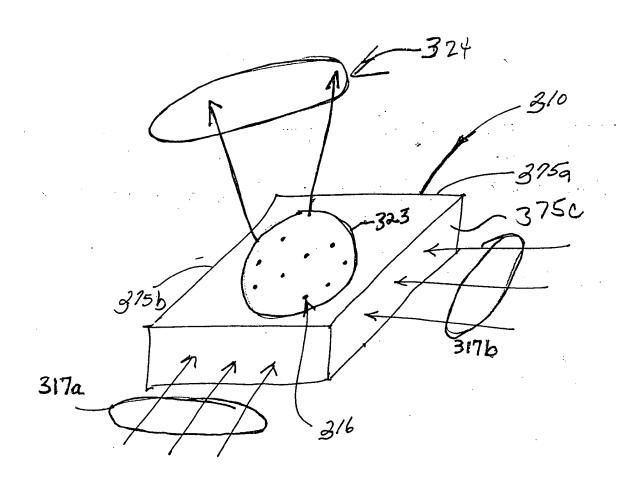


Fig. 24